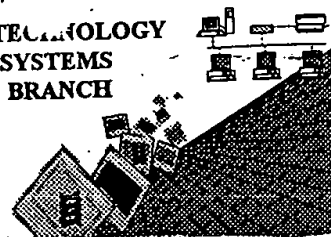


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BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
0508

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/002,784

Source: 01PE

Date Processed by STIC: 5/9/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,784

DATE: 05/09/2002
TIME: 14:08:51

Input Set : A:\Sequence.txt
Output Set: N:\CRF3\05092002\J002784.raw

W--> *delete* 3 /33
9 <110> APPLICANT: Ulrich, Robert G.
11 <120> TITLE OF INVENTION: Bacterial Superantigen Vaccines
13 <130> FILE REFERENCE: 003/233/SAP
15 <140> CURRENT APPLICATION NUMBER: 10/002,784
C--> 17 <141> CURRENT FILING DATE: 2002-04-23
19 <150> PRIOR APPLICATION NUMBER: 08/882,431; 09/144,776
W--> 21 <151> PRIOR FILING DATE: 97-06-25; 98-09-01
23 <160> NUMBER OF SEQ ID NOS: 40
25 <170> SOFTWARE: Apple Macintosh Microsoft Word 6.0

ERRORED SEQUENCES

856 <210> SEQ ID NO: 17 *nos. differ*
858 <211> LENGTH: 28
859 <212> TYPE: DNA
860 <213> ORGANISM: Artificial sequence
W--> 861 <220> FEATURE: *ok*
862 <223> OTHER INFORMATION: primer
E--> 863 <400> SEQUENCE: 18
865 ctcgcaagag gtacatatgc aacaagac 28
1121 <210> SEQ ID NO: 26
1123 <211> LENGTH: 220
1124 <212> TYPE: PRT
1125 <213> ORGANISM: Artificial sequence
W--> 1126 <220> FEATURE:
1127 <223> OTHER INFORMATION: mutant streptococcal pyrogenic exotoxin-A
W--> 1128 <400> SEQUENCE: 26
1130 Met Gln Gln Asp Pro Asp Pro Ser Gln Leu
1131 5 10
1132 His Arg Ser Ser Leu Val Lys Asn Leu Gln
1133 15 20
1134 Asn Ile Tyr Phe Leu Tyr Glu Gly Asp Pro
1135 25 30
1136 Val Thr His Glu Asn Val Lys Ser Val Asp
1137 35 40
1138 Gln Leu Arg Ser His Asp Leu Ile Tyr Asn
1139 45 50
1140 Val Ser Gly Pro Asn Tyr Asp Lys Leu Lys
1141 55 60
1142 Thr Glu Leu Lys Asn Gln Glu Met Ala Thr
1143 65 70

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,784

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TIME: 14:08:51

Input Set : A:\Sequence.txt
Output Set: N:\CRF3\05092002\J002784.raw

1144 Leu Phe Lys Asp Lys Asn Ile Asp Ile Tyr
1145 75 80
1146 Gly Val Glu Tyr Tyr His Leu Cys Tyr Leu
1147 85 90
1148 Cys Glu Asn Ala Glu Arg Ser Ala Cys Ile
1149 95 100
1150 Gly Gly Val Thr Asn Arg Glu Gly Asn His
E--> 1151 105 100 → 110
1152 Leu Glu Ile Pro Lys Lys Ile Val Val Lys
1153 115 120
1154 Val Ser Ile Asp Gly Ile Gln Ser Leu Ser
1155 125 130
1156 Phe Asp Ile Glu Thr Asn Lys Lys Met Val
1157 135 140
1158 Thr Ala Gln Glu Leu Asp Tyr Lys Val Arg
1159 145 150
1160 Lys Tyr Leu Thr Asp Asn Lys Gln Leu Tyr
1161 155 160
1162 Thr Asn Gly Pro Ser Lys Tyr Glu Thr Gly
1163 165 170
1164 Tyr Ile Lys Phe Ile Pro Lys Asn Lys Glu
1165 175 180
1166 Ser Phe Trp Phe Asp Phe Phe Pro Glu Pro
1167 185 190
1168 Glu Phe Thr Gln Ser Lys Tyr Leu Met Ile
1169 195 200
1170 Tyr Lys Asp Asn Glu Thr Leu Asp Ser Asn
1171 205 210
1172 Thr Gln Ile Glu Val Tyr Leu Thr Thr Lys
1173 215 220
1324 <210> SEQ ID NO: 32
1326 <211> LENGTH: 82
1327 <212> TYPE: PRT
1328 <213> ORGANISM: staphylococcal enterotoxin A
1329 <223> OTHER INFORMATION: partial sequence as shown in Figure 3
E--> 1330 <400> SEQUENCE: 32
1332 Ser His Asp Gln Phe Leu Gln His Thr Ile
1333 5 10
1334 Leu Phe Lys Gly Phe Phe Thr Asp His Ser
1335 15 20
1336 Trp Tyr Asn Asp Leu Leu Val Asp Phe Asp
1337 25 30
1338 Ser Lys Asp Ile Val Asp Lys Tyr Lys Gly
1339 35 40
1340 Lys Lys Val Asp Leu Tyr Gly Ala Tyr Tyr
1341 45 50
1342 Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn
1343 55 60
1344 Lys Thr Ala Cys Met Tyr Gly Gly Val Thr

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

Error: 42207 is mandatory when
42237 is present per Sect. 1.823
of the New Rule

RAW SEQUENCE LISTING

DATE: 05/09/2002

PATENT APPLICATION: US/10/002,784

TIME: 14:08:51

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

```

1345                65                70
1346 Leu His Asp Asn Asn Arg Leu Thr Glu Glu
1347                75                80
1348 Lys Lys
1350 <210> SEQ ID NO: 33
1352 <211> LENGTH: 82
1353 <212> TYPE: PRT
1354 <213> ORGANISM: staphylococcal enterotoxin D
1355 <223> OTHER INFORMATION: partial sequence as shown in Figure 3
E--> 1356 <400> SEQUENCE: 33
1358 Thr Gly Asp Gln Phe Leu Glu Asn Thr Leu
1359                5                10
1360 Leu Tyr Lys Lys Phe Phe Thr Asp Leu Ile
1361                15                20
1362 Asn Phe Glu Asp Leu Leu Ile Asn Phe Asn
1363                25                30
1364 Ser Lys Glu Met Ala Gln His Phe Lys Ser
1365                35                40
1366 Lys Asn Val Asp Val Tyr Pro Ile Arg Tyr
1367                45                50
1368 Ser Ile Asn Cys Tyr Gly Gly Glu Ile Asp
1369                55                60
1370 Arg Thr Ala Cys Thr Tyr Gly Gly Val Thr
1371                65                70
1372 Pro His Glu Gly Asn Lys Leu Lys Glu Arg
1373                75                80
1374 Lys Lys
1377 <210> SEQ ID NO: 34
1379 <211> LENGTH: 82
1380 <212> TYPE: PRT
1381 <213> ORGANISM: staphylococcal enterotoxin E
1382 <223> OTHER INFORMATION: partial sequence as shown in Figure 3
E--> 1383 <400> SEQUENCE: 34
1385 Ser Asp Asp Gln Phe Leu Glu Asn Thr Leu
1386                5                10
1387 Leu Phe Lys Gly Phe Phe Thr Gly His Pro
1388                15                20
1389 Trp Tyr Asn Asp Leu Leu Val Asp Leu Gly
1390                25                30
1391 Ser Lys Asp Ala Thr Asn Lys Tyr Lys Gly
1392                35                40
1393 Lys Lys Val Asp Leu Tyr Gly Ala Tyr Tyr
1394                45                50
1395 Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn
1396                55                60
1397 Lys Thr Ala Cys Met Tyr Gly Gly Val Thr
1398                65                70
1399 Leu His Asp Asn Asn Arg Leu Thr Glu Glu
1400                75                80

```

RAW SEQUENCE LISTING

DATE: 05/09/2002

PATENT APPLICATION: US/10/002,784

TIME: 14:08:51

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

```

1401 Lys Lys
1403 <210> SEQ ID NO: 35
1405 <211> LENGTH: 89
1406 <212> TYPE: PRT
1407 <213> ORGANISM: staphylococcal enterotoxin B
1408 <223> OTHER INFORMATION: partial sequence as shown in Figure 3
E--> 1409 <400> SEQUENCE: 35
1411 Ser Ile Asp Gln Phe Leu Tyr Phe Asp Leu
1412                      5                      10
1413 Ile Tyr Ser Ile Lys Asp Thr Lys Leu Gly
1414                      15                      20
1415 Asn Tyr Asp Asn Val Arg Val Glu Phe Lys
1416                      25                      30
1417 Asn Lys Asp Leu Ala Asp Lys Tyr Lys Asp
1418                      35                      40
1419 Lys Tyr Val Asp Val Phe Gly Ala Asn Tyr
1420                      45                      50
1421 Tyr Gln Cys Tyr Phe Ser Lys Lys Thr Asn
1422                      55                      60
1423 Asp Ile Asn Ser His Gln Thr Asp Lys Arg
1424                      65                      70
1425 Lys Thr Cys Met Tyr Gly Gly Val Thr Glu
1426                      75                      80
1427 His Asn Gly Asn Gln Leu Asp Lys Tyr
1428                      85
1430 <210> SEQ ID NO: 36
1432 <211> LENGTH: 89
1433 <212> TYPE: PRT
1434 <213> ORGANISM: staphylococcal enterotoxin C1
1435 <223> OTHER INFORMATION: partial sequence as shown in Figure 3
E--> 1436 <400> SEQUENCE: 36
1438 Ser Val Asp Lys Phe Leu Ala His Asp Leu
1439                      5                      10
1440 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys
1441                      15                      20
1442 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu
1443                      25                      30
1444 Asn Glu Gly Leu Ala Lys Lys Tyr Lys Asp
1445                      35                      40
1446 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr
1447                      45                      50
1448 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp
1449                      55                      60
1450 Asn Val Gly Lys Val Thr Gly Gly Lys Thr
1451                      65                      70
1452 Cys Met Tyr Gly Gly Ile Thr Lys His Glu
1453                      75                      80
1454 Gly Asn His Phe Asp Asn Gly Asn Leu
1455                      85

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,784

DATE: 05/09/2002

TIME: 14:08:51

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

1457 <210> SEQ ID NO: 37

1459 <211> LENGTH: 89

1460 <212> TYPE: PRT

1461 <213> ORGANISM: staphylococcal enterotoxin C2

1462 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1463 <400> SEQUENCE: 37

```

1465 Ser Val Asp Lys Phe Leu Ala His Asp Leu
1466                      5                      10
1467 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys
1468                      15                      20
1469 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu
1470                      25                      30
1471 Asn Glu Asp Leu Ala Lys Lys Tyr Lys Asp
1472                      35                      40
1473 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr
1474                      45                      50
1475 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp
1476                      55                      60
1477 Asn Val Gly Lys Val Thr Gly Gly Lys Thr
1478                      65                      70
1479 Cys Met Tyr Gly Gly Ile Thr Lys His Glu
1480                      75                      80
1481 Gly Asn His Phe Asp Asn Gly Asn Leu
1482                      85

```

1484 <210> SEQ ID NO: 38

1486 <211> LENGTH: 89

1487 <212> TYPE: PRT

1488 <213> ORGANISM: staphylococcal enterotoxin C3

1489 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1490 <400> SEQUENCE: 38

```

1492 Ser Val Asp Lys Phe Leu Ala His Asp Leu
1493                      5                      10
1494 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys
1495                      15                      20
1496 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu
1497                      25                      30
1498 Asn Glu Asp Leu Ala Lys Lys Tyr Lys Asp
1499                      35                      40
1500 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr
1501                      45                      50
1502 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp
1503                      55                      60
1504 Asn Val Gly Lys Val Thr Gly Gly Lys Thr
1505                      65                      70
1506 Cys Met Tyr Gly Gly Ile Thr Lys His Glu
1507                      75                      80
1508 Gly Asn His Phe Asp Asn Gly Asn Leu
1509                      85
1511 <210> SEQ ID NO: 39

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002,784

DATE: 05/09/2002

TIME: 14:08:51

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

1513 <211> LENGTH: 79

1514 <212> TYPE: PRT

1515 <213> ORGANISM: streptococcal pyrogenic enterotoxin a

1516 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1517 <400> SEQUENCE: 39

1519 Ser Val Asp Gln Leu Leu Ser His Asp Leu

1520 5 10

1521 Ile Tyr Asn Val Ser Gly Pro Asn Tyr Asp

1522 15 20

1523 Lys Leu Lys Thr Glu Leu Lys Asn Gln Glu

1524 25 30

1525 Met Ala Thr Leu Phe Lys Asp Lys Asn Val

1526 35 40

1527 Asp Ile Tyr Gly Val Glu Tyr Tyr His Leu

1528 45 50

1529 Cys Tyr Leu Cys Glu Asn Ala Glu Arg Ser

1530 55 60

1531 Ala Cys Ile Tyr Gly Gly Val Thr Asn His

1532 65 70

1533 Glu Gly Asn His Leu Glu Ile Pro Lys

1534 75

1536 <210> SEQ ID NO: 40

1538 <211> LENGTH: 73

1539 <212> TYPE: PRT

1540 <213> ORGANISM: toxin shock syndrome toxin-1

1541 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1542 <400> SEQUENCE: 40

1544 Val Leu Asp Asn Ser Leu Gly Ser Met Arg

1545 5 10

1546 Ile Lys Asn Thr Asp Gly Ser Ile Ser Leu

1547 15 20

1548 Ile Ile Phe Pro Ser Pro Tyr Tyr Ser Pro

1549 25 30

1550 Ala Phe Thr Lys Gly Glu Lys Val Asp Leu

1551 35 40

1552 Asn Thr Lys Arg Thr Lys Lys Ser Gln His

1553 45 50

1554 Thr Ser Glu Gly Thr Tyr Ile His Phe Gln

1555 55 60

1556 Ile Ser Gly Val Thr Asn Thr Glu Lys Leu

1557 65 70

1558 Pro Thr Pro

VERIFICATION SUMMARY

DATE: 05/09/2002

PATENT APPLICATION: US/10/002,784

TIME: 14:08:52

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

L:3 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:21 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:32 M:283 W: Missing Blank Line separator, <220> field identifier
L:34 M:283 W: Missing Blank Line separator, <400> field identifier
L:64 M:283 W: Missing Blank Line separator, <220> field identifier
L:66 M:283 W: Missing Blank Line separator, <400> field identifier
L:126 M:283 W: Missing Blank Line separator, <220> field identifier
L:128 M:283 W: Missing Blank Line separator, <400> field identifier
L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:216 M:283 W: Missing Blank Line separator, <400> field identifier
L:267 M:283 W: Missing Blank Line separator, <220> field identifier
L:269 M:283 W: Missing Blank Line separator, <400> field identifier
L:331 M:283 W: Missing Blank Line separator, <220> field identifier
L:333 M:283 W: Missing Blank Line separator, <400> field identifier
L:384 M:283 W: Missing Blank Line separator, <220> field identifier
L:386 M:283 W: Missing Blank Line separator, <400> field identifier
L:448 M:283 W: Missing Blank Line separator, <220> field identifier
L:450 M:283 W: Missing Blank Line separator, <400> field identifier
L:494 M:283 W: Missing Blank Line separator, <220> field identifier
L:496 M:283 W: Missing Blank Line separator, <400> field identifier
L:552 M:283 W: Missing Blank Line separator, <220> field identifier
L:583 M:283 W: Missing Blank Line separator, <220> field identifier
L:585 M:283 W: Missing Blank Line separator, <400> field identifier
L:641 M:283 W: Missing Blank Line separator, <220> field identifier
L:643 M:283 W: Missing Blank Line separator, <400> field identifier
L:680 M:283 W: Missing Blank Line separator, <220> field identifier
L:682 M:283 W: Missing Blank Line separator, <400> field identifier
L:744 M:283 W: Missing Blank Line separator, <220> field identifier
L:746 M:283 W: Missing Blank Line separator, <400> field identifier
L:800 M:283 W: Missing Blank Line separator, <220> field identifier
L:802 M:283 W: Missing Blank Line separator, <400> field identifier
L:861 M:283 W: Missing Blank Line separator, <220> field identifier
L:863 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:17 differs:18
L:863 M:283 W: Missing Blank Line separator, <400> field identifier
L:872 M:283 W: Missing Blank Line separator, <220> field identifier
L:874 M:283 W: Missing Blank Line separator, <400> field identifier
L:883 M:283 W: Missing Blank Line separator, <220> field identifier
L:885 M:283 W: Missing Blank Line separator, <400> field identifier
L:894 M:283 W: Missing Blank Line separator, <220> field identifier
L:896 M:283 W: Missing Blank Line separator, <400> field identifier
L:905 M:283 W: Missing Blank Line separator, <220> field identifier
L:907 M:283 W: Missing Blank Line separator, <400> field identifier
L:917 M:283 W: Missing Blank Line separator, <220> field identifier
L:919 M:283 W: Missing Blank Line separator, <400> field identifier
L:928 M:283 W: Missing Blank Line separator, <220> field identifier
L:930 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,784

DATE: 05/09/2002

TIME: 14:08:52

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\05092002\J002784.raw

L:976 M:283 W: Missing Blank Line separator, <220> field identifier
L:978 M:283 W: Missing Blank Line separator, <400> field identifier
L:1066 M:283 W: Missing Blank Line separator, <220> field identifier
L:1068 M:283 W: Missing Blank Line separator, <400> field identifier
L:1126 M:283 W: Missing Blank Line separator, <220> field identifier
L:1128 M:283 W: Missing Blank Line separator, <400> field identifier
L:1151 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26
L:1330 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:32
L:1356 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:33
L:1383 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:34
L:1409 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:35
L:1436 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:36
L:1463 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:37
L:1490 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:38
L:1517 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:39
L:1542 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:40